

## **H1Z2Z2-K**

### **Solar cables**

material: XLPE tipology: SINGLECORE



**Applications:** Photovoltaic Cables

#### **Conditions of employment**

The single core H1Z2Z2-K cable represents a right solution to link the solar cellars between them or to wire with frequency converters and terminal boards. The H1Z2Z2-K cable guarantees good resistance to UV-rays and various weather conditions. The wide working temperature range allows the use also in extreme conditions, avoiding deterioration caused by heat and permitting a right use of the fotovoltaic panel in every season.

**Type of electrical conductor:** Flexible tinned copper

**Main rule:** EN 50618

**Conductor:** EN 60228; IEC 60228

**Self-extinguishing:** EN 60332-1-2; IEC 60332-1-2

**Ozone resistance:** EN 50396 8.1.3

**Description**

Low smoke halogen-free, flexible, single-core power cables with cross-linked insulation and sheath.

## Technical Specifications

Review number	n. 3 - 18/2/2019
Nominal tension	1,0/1,0 kVca - 1,5 kVdc
Type of insulation	Compound conforming to EN 50618
Type of outer sheath	Compound conforming to EN 50618
Color of the outer sheath	Black, blue, red
Operating temperature	-40° C   +90° C
Short circuit temperature	Max 250° C 5 sec °C
Test voltage	6500 Vac - 15000 Vdc
Cable marking	ELETTRO BRESCIA H1Z2Z2-K (I/II)* 1xsect. mm <sup>2</sup> TÜV Rheinland Reg. Nr. R (60109330/60108022)* Dca- s2,d2,a1 max 1,8KVdc
Minimum radius of curvature	4 times the cable diameter for fixed and mobile laying.
Insulation tolerance	± 0,1
Sheath tolerance	± 0,2

## Sections

Nominal section	Max wire diameter	Conductor diameter	Insulation thickness	Average sheath thickness	Average diameter $\pm 0,1$	Copper electric resistance 20°C	Indicative weight	CU Factor
( Nxmm <sup>2</sup> )	(mm)	(mm)	(mm)	(mm)	(mm)	(ohm/km)	(kg/km)	(kg/km)
1x2,50	0,25	0,000	0,75	0,8	5.1	8,21	47	24
1x4,00	0,3	0,000	0,72	0,8	5.4	5,09	58	38,4
1x6,00	0,3	0,000	0,74	0,8	6	3,39	78	57,6
1x10,00	0,4	0,000	0,73	0,8	7	1,95	125	96
1x16,00	0,4	0,000	0,74	0,9	8.2	1,24	184	153,6

### Note:

*The manufacturer reserves the right to modify all or part of the data shown in this catalog*

Refer to the CEI EN 50565 standard series as a guide to the use of cables with rated voltage not exceeding 450/750 V (U<sub>0</sub> / U) and to the CEI 20-92 standard as a guide for handling and storing wooden cable reels electric.

Elettro Brescia S.p.A. - Via Bulloni, 58 - 25050 Camignone di Passirano (BS)